Nicholas J W Rattray

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Untargeted Molecular Analysis of Exhaled Breath as a Diagnostic Test for Ventilator-Associated Lower Respiratory Tract Infections (BreathDx). Thorax, 2022, 77, 79-81.	2.7	10
2	Development of an Accessible Gene Expression Bioinformatics Pipeline to Study Driver Mutations of Colorectal Cancer. ATLA Alternatives To Laboratory Animals, 2022, 50, 282-292.	0.7	6
3	Identification of Dose-Dependent DNA Damage and Repair Responses From Subchronic Exposure to 1,4-Dioxane in Mice Using a Systems Analysis Approach. Toxicological Sciences, 2021, 183, 338-351.	1.4	10
4	YIV-906 potentiated anti-PD1 action against hepatocellular carcinoma by enhancing adaptive and innate immunity in the tumor microenvironment. Scientific Reports, 2021, 11, 13482.	1.6	13
5	ENT2 facilitates brain endothelial cell penetration and blood-brain barrier transport by a tumor-targeting anti-DNA autoantibody. JCI Insight, 2021, 6, .	2.3	4
6	Kynurenic acid may underlie sex-specific immune responses to COVID-19. Science Signaling, 2021, 14, .	1.6	58
7	Breath and plasma metabolomics to assess inflammation in acute stroke. Scientific Reports, 2021, 11, 21949.	1.6	3
8	64. AN ENT2-DEPENDENT, CELL-PENETRATING, AND DNA-DAMAGING LUPUS AUTOANTIBODY CROSSES THE BLOOD-BRAIN BARRIER TO TARGET BRAIN TUMORS. Neuro-Oncology Advances, 2020, 2, ii13-ii13.	0.4	0
9	Sex Differences in Colon Cancer Metabolism Reveal A Novel Subphenotype. Scientific Reports, 2020, 10, 4905.	1.6	41
10	Tumor Tissue-Specific Biomarkers of Colorectal Cancer by Anatomic Location and Stage. Metabolites, 2020, 10, 257.	1.3	16
11	Metabolic dysregulation in vitaminÂE and carnitine shuttle energy mechanisms associate with human frailty. Nature Communications, 2019, 10, 5027.	5.8	70
12	Normalizing Untargeted Periconceptional Urinary Metabolomics Data: A Comparison of Approaches. Metabolites, 2019, 9, 198.	1.3	30
13	Machine Learning of Designed Translational Control Allows Predictive Pathway Optimization in <i>Escherichia coli</i> . ACS Synthetic Biology, 2019, 8, 127-136.	1.9	88
14	Palbociclib and Fulvestrant Act in Synergy to Modulate Central Carbon Metabolism in Breast Cancer Cells. Metabolites, 2019, 9, 7.	1.3	10
15	Re-engineering and evaluation of anti-DNA autoantibody 3E10 for therapeutic applications. Biochemical and Biophysical Research Communications, 2018, 496, 858-864.	1.0	12
16	Engineering the "Missing Link―in Biosynthetic (â^')-Menthol Production: Bacterial Isopulegone Isomerase. ACS Catalysis, 2018, 8, 2012-2020.	5.5	20
17	Beyond genomics: understanding exposotypes through metabolomics. Human Genomics, 2018, 12, 4.	1.4	73
18	An automated Design-Build-Test-Learn pipeline for enhanced microbial production of fine chemicals. Communications Biology, 2018, 1, 66.	2.0	159

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19	BreathDx – molecular analysis of exhaled breath as a diagnostic test for ventilator–associated pneumonia: protocol for a European multicentre observational study. BMC Pulmonary Medicine, 2017, 17, 1.	0.8	84
20	Environmental Influences in the Etiology of Colorectal Cancer: the Premise of Metabolomics. Current Pharmacology Reports, 2017, 3, 114-125.	1.5	46
21	Systems biology guided by XCMS Online metabolomics. Nature Methods, 2017, 14, 461-462.	9.0	168
22	Pharmacometabolomics and Precision Medicine Special Issue Editorial. Metabolomics, 2017, 13, 1.	1.4	9
23	Bioinformatics for the synthetic biology of natural products: integrating across the Design–Build–Test cycle. Natural Product Reports, 2016, 33, 925-932.	5.2	58
24	Classification of Bacillus and Brevibacillus species using rapid analysis of lipids by mass spectrometry. Analytical and Bioanalytical Chemistry, 2016, 408, 7865-7878.	1.9	17
25	SYNBIOCHEM–a SynBio foundry for the biosynthesis and sustainable production of fine and speciality chemicals. Biochemical Society Transactions, 2016, 44, 675-677.	1.6	7
26	FUM2, a Cytosolic Fumarase, Is Essential for Acclimation to Low Temperature in <i>Arabidopsis thaliana</i> . Plant Physiology, 2016, 172, 118-127.	2.3	48
27	Electronic cigarette exposure triggers neutrophil inflammatory responses. Respiratory Research, 2016, 17, 56.	1.4	117
28	Metabolic analysis of the response of Pseudomonas putida DOT-T1E strains to toluene using Fourier transform infrared spectroscopy and gas chromatography mass spectrometry. Metabolomics, 2016, 12, 112.	1.4	9
29	Meat, the metabolites: an integrated metabolite profiling and lipidomics approach for the detection of the adulteration of beef with pork. Analyst, The, 2016, 141, 2155-2164.	1.7	106
30	High-throughput metabolic screening of microalgae genetic variation in response to nutrient limitation. Metabolomics, 2016, 12, 9.	1.4	35
31	Metabolomic analysis of riboswitch containing E. coli recombinant expression system. Molecular BioSystems, 2016, 12, 350-361.	2.9	16
32	Towards Improving Point-of-Care Diagnosis of Non-malaria Febrile Illness: A Metabolomics Approach. PLoS Neglected Tropical Diseases, 2016, 10, e0004480.	1.3	16
33	Biochemical Analyses of Sorghum Varieties Reveal Differential Responses to Drought. PLoS ONE, 2016, 11, e0154423.	1.1	48
34	Metabolomics Analysis Reveals the Participation of Efflux Pumps and Ornithine in the Response of Pseudomonas putida DOT-T1E Cells to Challenge with Propranolol. PLoS ONE, 2016, 11, e0156509.	1.1	11
35	Metabolomics investigation of recombinant mTNFÎ \pm production in Streptomyces lividans. Microbial Cell Factories, 2015, 14, 157.	1.9	18
36	Metabolic Profiling of Geobacter sulfurreducens during Industrial Bioprocess Scale-Up. Applied and Environmental Microbiology, 2015, 81, 3288-3298.	1.4	26

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37	UbiX is a flavin prenyltransferase required for bacterial ubiquinone biosynthesis. Nature, 2015, 522, 502-506.	13.7	168
38	New cofactor supports α,β-unsaturated acid decarboxylation via 1,3-dipolar cycloaddition. Nature, 2015, 522, 497-501.	13.7	197